

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C04B18/24 C04B28/02
//C04B11/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EPODOC EUROPEAN PATENT OFFICE, THE HAGUE, NL; KR9612720 24 September 1996 (1996-09-24), CHO YONG KIL: "Composition of lightweight concrete" XP002293795 abstract ----- X DATABASE WPI Section Ch, Week 199946 Derwent Publications Ltd., London, GB; Class L02, AN 1999-544906 XP002293796 & JP 11 236280 A (TANIGUCHI Y) 31 August 1999 (1999-08-31) abstract ----- -/-	1-3,11, 12,15, 18, 21-24, 27,29 1,3,5,6, 11,12, 18,21-24

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority, claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

26 August 2004

Date of mailing of the international search report

20/09/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 475 275 B1 (NEBESNAK EDWARD ET AL) 5 November 2002 (2002-11-05) cited in the application column 2, line 29 – column 4, line 33	1,3, 13-15, 17,18, 20,21, 25,29
X	"CHEMICAL ABSTRACTS + INDEXES, AMERICAN CHEMICAL SOCIETY. COLUMBUS, US" 11 June 1988. (1988-06-11), CHEMICAL ABSTRACTS + INDEXES, AMERICAN CHEMICAL SOCIETY. COLUMBUS, US , XP000158199 ISSN: 0009-2258 abstract	1,3,4, 13-15, 18,19, 21, 25-27,29
X	US 5 482 550 A (STRAIT MARK C) 9 January 1996 (1996-01-09) column 1, lines 13-23 table 2 column 11, lines 61-68	1,3,8, 13-15, 18,21, 25-27,29
X	DE 42 33 208 A (HIENDL HERIBERT) 7 April 1994 (1994-04-07) the whole document	1-3,5,6, 13-16, 18,19, 21, 25-27, 29,30
X	FR 2 727 675 A (CARLUCCI PIERRE ANTOINE) 7 June 1996 (1996-06-07) the whole document	1-3,5-7, 9,10, 13-15, 20,21, 25-27,29
X	EP 0 103 195 A (ARHELDER KARL HEINZ) 21 March 1984 (1984-03-21) page 4, line 17 – page 5, line 30	1,3,5,6, 16,30
X	US 2 153 837 A (VICTOR HYBINETTE NOAK) 11 April 1939 (1939-04-11) the whole document	1,3,5,6, 8,16,21, 29

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2004/002213

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Present claim 28 relates to a product defined (*inter alia*) by reference to the following parameter:

"reduced expansion resulting from a soundproofing and heat insulating property"

The use of this parameter in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to compare the parameters the applicant has chosen to employ with what is set out in the prior art. The lack of clarity is such as to render a meaningful complete search impossible.

Consequently, the search has been restricted to a compound obtainable from a mixture as defined in claims 1 to 20.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

Information on patent family members

International Application No
PCT/IB2004/002213

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 11236280	A	31-08-1999	NONE			
US 6475275	B1	05-11-2002	AU AU BR CA CN EP WO ZA	767059 B2 1221701 A 0014975 A 2388499 A1 1411396 T 1235651 A1 0128697 A1 200203054 A		30-10-2003 30-04-2001 18-06-2002 26-04-2001 16-04-2003 04-09-2002 26-04-2001 18-08-2003
US 5482550	A	09-01-1996	NONE			
DE 4233208	A	07-04-1994	DE DE	4110829 A1 4233208 A1		08-10-1992 07-04-1994
FR 2727675	A	07-06-1996	FR	2727675 A1		07-06-1996
EP 0103195	A	21-03-1984	DE AU DD DK EP FI JP ZA ES NO	3308124 A1 1862283 A 230860 A1 411683 A 0103195 A1 833178 A 59083967 A 8306541 A 8507085 A1 840761 A		22-03-1984 22-03-1984 11-12-1985 14-03-1984 21-03-1984 14-03-1984 15-05-1984 31-10-1984 01-12-1985 10-09-1984
US 2153837	A	11-04-1939	NONE			